

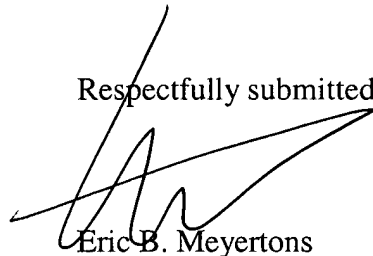
derived from claims originally dependent on claim 531. Applicant believes that the new claims require no additional search. Applicant requests entry of the new claims.

**E. Additional Remarks**

Applicant submits that all claims are in condition for allowance. Favorable consideration is respectfully requested.

Applicant believes that no fees are due in association with the filing of this response and the accompanying documents. If an extension of time is required, Applicant hereby requests the appropriate extension of time. If any fees are required, please appropriately charge or credit those fees to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account Number 50-1505/5659-08100/EBM.

Respectfully submitted,



Eric B. Meyertons  
Reg. No. 34,876

Attorney for Applicant

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.  
P.O. Box 398  
Austin, TX 78767-0398  
(512) 853-8800 (voice)  
(512) 853-8801 (facsimile)

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**Marked-Up Version of Amendments Submitted With  
Amendment; Response to Office Action Mailed June 5, 2003**

531. (amended) A method of treating a hydrocarbon containing formation in situ, comprising:  
providing heat from ~~one or more~~ heaters to at least a portion of the formation;

allowing the heat to transfer from the ~~one or more~~ heaters to a part of the formation,  
wherein superposition of heat from at least two of the heaters pyrolyzes some hydrocarbons in  
the part of the formation;

controlling a pressure and a temperature in at least a majority of the part of the formation,  
wherein the pressure is controlled as a function of temperature, or the temperature is controlled  
as a function of pressure, and wherein the controlled pressure is at least about 2.0 bars absolute;  
and

producing a mixture from the formation.

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539. (amended) The method of claim 531, wherein providing heat from the ~~one or more~~  
heaters to at least the portion of the formation comprises:

heating a selected volume ( $V$ ) of the hydrocarbon containing formation from the ~~one or  
more~~ heaters, wherein the formation has an average heat capacity ( $C_v$ ), and wherein the  
heating pyrolyzes at least some hydrocarbons in the selected volume of the formation; and

wherein heating energy/day ( $Pwr$ ) provided to the selected volume is equal to or less than  
 $h * V * C_v * \rho_B$ , wherein  $\rho_B$  is formation bulk density, and wherein an average heating rate ( $h$ ) of the  
selected volume is about 10 °C/day.

541. (amended) The method of claim 531, wherein allowing heat to transfer from the ~~one or  
more~~ heaters increases a thermal conductivity of at least a portion of the part of the formation to  
greater than about 0.5 W/(m °C).

**GROUP 3600**